EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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/	AV	6,010,934	01/04/00	Wu		OIPE	438	264				
	AW	6,016,433	01/18/00	Mizuno et al.		٠,	505	190				
	AX	6,060,723	05/09/00	Nakazato et a	1.	MAR 2 6 2002	257	315				
	AY	6,069,380	05/30/00	Chou et al.	R	ي لي	257	315				
	ΑZ	6,169,308	01/02/01	Sunami et al.	-	RADEMARK	257	321		_		
	ВА	6,204,517	03/20/01	Wu			257	51				
	ВВ	6,211,013	04/03/01	Park et al.			438	257				
	вс	6,301,029	10/09/01	Azuma	•		359	107				
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		OTHER RE	FERENCES (Ir	ncluding Author, Ti	tle, Date,	Pertinent Pages, Etc.)					
	BD	Ashkroft and Mermin, '	'Condensed I	Matter Physics"	, pp. 726	6-753 (S aunder C	ollege Pul	olishing, 1	976).			
	BE	(Author Unknown), "De About.com Inc. (2001).				s.about.com/librar	y/dict/blde	fmesosco	pic.ht	<u>m</u> ,		
	BF	D. V. Averin, A. N. Kor Charge State in a Supe										
	BG	P. Bagwell, "Suppressi by a single impurity", P						iconducto	r chai	nnel		
	вн	Y. Barash, A. Galaktion Phys. Rev. B, 52:1, 66			transpor	t in junctions betw	een d-wav	e superco	nduct	ors",		
	ВІ	Y. Barash, H. Burkhard Junctions in d-Wave S	dt, and D. Rai	iner, "Low-Tem					ırrent	of		
	BJ	Y. Barash, "Quasipartion cond-mat/9907277 (Ju	cle Interface	•		•		•	. prep	rint		
	ВК	J. Bardeen, and J. Joh Junctions", Phys. Rev.	nson, "Josep			ure Superconducti	ng-Norma	I-Superco	nduct	ing		
	BL	Adriano Barenco, Todo preprint quant-ph/9612	d A. Brun et a	al., "Effects of no		quantum error corr	ection alg	orithms", l	ANL			
	вм	A. Barenco et al., "Eler	,	· · · · · · · · · · · · · · · · · · ·	Computa	ation". Phys. Rev.	A 52. pp.3	457-3467	(1995	;).		
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	во	A. Barone and G. Pate York, (1982) [Hard Co			s of the Josephson Effe	ect", John W	iley & Sor	s, Ne	w
						:- ONC :	4		
	BP				nd nonlocality in mesos I-mat/9805104 (Novemb			anoma	alous
	BQ	David Beckman, Amal quant-ph/9602016 (Fe			nt networks for quantum	n factoring",	LANL pre	print	
	BR	C. Beenakker, J.A. Me LANL preprint cnod-ma			nt backscattering in and	gle-resolved	Andreev	reflect	ion",
	BS	P. Benioff, "Quantum F	Robots Plus E	Environments". L	ANL preprint quant-ph/9	9807032 (19	998).		
	вт	G. P. Berman, A. R. Bi	shop, G. D. [Doolen, G. V. Lo	pez, V. I. Tsifrinovich, "Il : Room Temperature", L	nfluence of	Non-Reso		3109
	ΒU	M. Biskup, P. Cejnar a preprint quant-ph/9608			and Efficiency of Quan	tum Error C	orrection"	, LANI	L
	BV	M. Blaauboer, R. Kope DND junctions", LANL			nstra, "Size-effects in th May 13, 1996).	e Density of	f States in	NS ar	nd
	BW	Alexandre Blais and A	lexandre M. 2	Zagoskin, "Opera	ation of universal gates i				t-
	вх		cess current,		n from metallic to tunnel ce and supercurrent con				
	BY	M. Bocko, A. Herr and Electronics", IEEE Tra			uantum Coherent Comp	outation Usir	ng Superc	onduc	ting
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Lile	BZ				he Quantum State of a	Single Quant	um Dot", S	Scienc	e,			
	CA		5395:282, 1473 (November 20, 1998). S. Bose, P.L. Knight et al., "Implementations of Quantum Logic: Fundamental and Experimental Limits", LANL preprint quant-ph/9712021 (December 10, 1997).									
	СВ	D. Aharonov and M. Be quant-ph/9611025 (Nov			tum Computation With (Constant Erro	or", LANL p	oreprii	nt			
	CC	D. Bouwmeester, A. Ed 2001).	kert, and A. Ze	eilinger, eds.,	The Physics of Quantu	m Information	n, p. 97 (S	Spring	er,			
	CD	Samuel L. Braunstein, ph/9603024 (March 19		or correction o	of dephasing in 3 qubits"	', LANL prepr	int quant-					
	CE	Samuel L. Braunstein a LANL preprint quant-ph			t quantum error correcti 6).	ion coding in	24 laser p	uses"	,			
	CF	H.J. Briegel et al., "Qua noisy channel", LANL p			ne creation of maximally December 11, 1997).	y entangled p	airs of ato	ms ov	er a			
	CG	H.J. Briegel, W. Dur et (March 20, 1998).	al., "Quantum	repeaters for	communication", LANL	. preprint qua	nt-ph/9803	3056				
	СН	C. Bruder, A. van Otter Rev. B, 51:18, 12904-1			el junctions of unconven	ntional superc	onductors	", Phy	′ S.			
	СІ	Dagmar Bruss, "Optima ph/9805019 (October 8		ng in quantur	n cryptography with six	states", LANI	_ preprint o	quant-	•			
	၁	Dagmar Bruss, Artur Elestimation", LANL prep			lo, "Optimal universal quober 8, 1998).	uantum clonir	ng and sta	te				
	СК		, "Universal O		g of Qubits and Quantu	m Registers"	, LANL pre	print				
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Die	CL	V. Buzek, S.L. Brauns 24, 1997).	tein et al., "Q	uantum co	pying: A network", LANL prep	print quant-pl	h/9703046	6 (March
	СМ				Error Correction Via Codes	Over GF(4)",	, LANL pre	eprint
	CN		Rains et al.,	•	Error Correction and Orthog	onal Geome	try", LANL	. preprint
	со		Peter W. Sho	or, "Good q	uantum error-correcting code	es exist", LAN	IL preprint	quant-
	СР	P. Carruthers, and M.		e and Angl	e Variables in Quantum Med	hanics", Rev	. Mod. Phy	ys., 4 0,
	ca				nson-current flow through an			ductor-
					Rev. B., 49:22, 15853-15863		-	
	CR	H.F. Chau, "Five Quar ph/9702033 (May 19,		er Error Cor	rection Code For Higher Spir	n Systems", l	_ANL prep	orint quant-
	cs	H. F. Chau, "Good Qua LANL preprint quant-p			ror Correction Codes and Th	eir Decoding	Algorithm	n Exist",
	СТ	H. F. Chau, "Quantum	Convolution	al Error Co	rrection Codes", LANL prepr	int quant-ph/	9802009 (1998).
	си	P. Chaudhari, et al., "T 238:4825, pp. 342-344		ucture of Hi	gh-Critical Current Supercon	ducting Films	s", Science	е
	CV	P. Chaudhari, et al., "D YBa2Cu3O7- delta", P			he superconducting propertie 53 (1988).	es of single g	rain bound	daries in
	cw		ama and U.	Merkt, "Evi	dence for a proximity-induce	d energy gap	in Nb/InA	s/Nb
EXAMINER		chiefle lin	, ,		DATE CONSIDERED 7 May	07		-
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		it reference considered, whi nd not considered. Include o			nformance with MPEP 609; Draw li ommunication to applicant.	ine through cita	ition it not	

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City	CX	ph/9511003 (November		IIIIIIII EIIOI		ANL prepi	ini quani-					
		Isaac L. Chuang and \	oshihisa Yamamo	oto. "A Simr	ole Quantum Computer".	LANL prer	orint quant	-				
	CY Isaac L. Chuang and Yoshihisa Yamamoto, "A Simple Quantum Computer", LANL preprint quant-ph/9505011 (May 22, 1995).											
\	07	Isaac L. Chuang and Yoshihisa Yamamoto, "The Persistent Quantum Bit", LANL preprint quant-ph/9604030										
	CZ	(April 25, 1996).			<u> </u>							
	DA	I. L. Chuang, N. Gersh ", Phys. Rev. Lett., 80:			perimental Implementatio 3).	n of Fast (Quantum S	Search	ing			
	DB				tratagies for the 4 state q	uantum cr	yptograph	y prote	ocol",			
	_	LANL preprint quant-p										
	DC	Daniel Clery, "New clu	es to superconduc	ctivity", Scie	nce, 265:5174, 860 (Aug	ust 12, 19	94).					
	DD	Richard Cleve and Da LANL preprint quant-p			mputations of Encodings	for Quantu	ım Error C	orrect	ion",			
	DE	Richard Cleve and Da	vid P. DiVincenzo,	, "Schumac	her's quantum data comp	ression as	s a quantui	m				
	- DL	computation", LANL pr	eprint quant-ph/96	603009 (Ma	rch 7, 1996).							
	DF	David Collins, K. W. K LANL preprint quant-p			zsa Algorithm as a test o	f Quantum	n Computa	tion",				
	DG	Douglas M. Considine eds., New York.	, "Van Nostrand's	Scientific E	ncyclopedia", 7th edition,	Douglas I	M. Considi	ne et a	al.,			
	DH	K. Constantinian, G. C			Ramos, Z. Ivanov, J. My			on,				
<u> </u>		"Microwave dynamics	of YBCO bi-epitax	ial Josephs	on structures", Physica C	2, 273, 21	(1996).					
	DI				oscopic quantum interfere crostructures, 25:5/6, 100			condu	cting			
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Dec.	DJ	R. De Bruyn Ouboter a State and Noise", LAN	nd A.N. Ome	lyanchouk," F	our-terminal SQUID:Ma		witching in	Bistable
	DK	H. De Raedt, K. Michie devices", Phys. Rev. B				scale metal-su	perconduc	otor
	DL.	R. Derka, V. Buzek and Finite Ensembles", LAN				mation of Qua	ntum State	es from
	DM	D. Deutsch, "Quantum the R. Soc. Of London			Principle and the University	ersal Quantum	n compute	r," Proc. of
	DN	David Deutsch, Artur E over noisy channels", L				security of qu	ıantum cry	ptography
	DO	T. Devereaux, and P. F junctions as a test for a						
	DP	C. D'Helon and G.J. M preprint quant-ph/9610			ts of spontaneous emis	ssion on cold-1	rapped ior	ns", LANL
	DQ	C. D'Helon, G. J. Milbu ph/9705014 (1997).	rn, "Quantum	n Measuremer	ts with a Quantum Cor	mputer", LANL	preprint q	uant-
	DR	D. Dimos, et al. "Orient bicrystals", Phys. Rev.			boundary critical currer	nts in YBa2Cu	307 - delt	a
	DS	D. P. DiVincenzo, and mat/9901137 (1999).	D. Loss, "Qua	antum Compu	ers and Quantum Coh	erence", LANL	_ preprint o	cond-
	DT	D. DiVincenzo, "Quanto preprint cond-mat/9810				sing the Spin	Filter Effec	et", LANL
. —	DU	D. DiVincenzo, "Quantı	um Computat	tion", Science,	279, 5234 (Jan. 16, 19	98).		
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	<u> </u>		•	•	horonoo in quantum	computation b	u nairina th		
	DX	Lu-Ming Duan and Gua quantum bits", LANL pr				computation b	y paining tr	ie	
	DY	Lu-Ming Duan and Gua (March 20, 1997).	ang-Can Guo,	"Decoherence	of quantum registers	s", LANL prepri	nt quant-p	h/970	3036
	DZ	Lu-Ming Duan and Gua communication", LANL				in quantum coi	mputation	and	
	EA	Lu-Ming Duan and Gua							
	ЕВ	C.B. Eom, A.F. Marsha (September 28, 1990).							.9
	EC	R. Fazio, G.M. Palma, 5385 (1999).	and J. Siewert	, "Fidelity and	Leakage of Josephso	on Qubits", Phy	rs. Rev. Le	ett. 83	,
	ED	D. Feder, A. Beardsall, Rev. B, 56:10, R5751-F			Twin boundaries in d	l-wave superco	onductors"	, Phys) .
	EE	M.V. Feigel'man et al., mat/9907317 (July 199		ctroscopy for S	Superconducting Pha	se Qubits", LA	NL preprin	t cond	-t
	EF	R. Feynman, "Stimulati (1982).	ng Physics wit	h Computers",	Int. Journal of Theor	retical Phys., 2	1:6/7, 467	-488	
	EG	M. Fogelstrom, S. Yip, cond-mat/9709120 (Se			nctions in d-wave sup	perconductors"	, LANL pre	eprint	
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o stie	EH	Christopher A. Fuchs, I cryptography. I.", LANL				vesdropping	in quantur	n				
í		A. Furusaki, "Josephso	n current carrie	ed by Andreev	levels in superconduc	cting quantun	n point					
	EI	Contacts" LANL preprir	nt cond-mat/98	11026 (1998)		<u> </u>						
		M Geller "Current-car	1. Geller, "Current-carrying ground states in mesoscopic and macroscopic systems", Phys. Rev. B., 53:15,									
	EJ	7. Geller, "Current-carrying ground states in mesoscopic and macroscopic systems", Phys. Rev. B., 53:15, 1550-9553 (April 15, 1996).										
	EK	Neil A. Gershenfeld & I		g, "Bulk spin-	resonance quantum co	mputation", §	Science, 5	298:275,				
-		350 (January 17, 1997)										
\	EL	Neil Gershenfeld & Isaa http://www.sciam.com/						at				
		V. Geshkenbein, A. Lar						mion"				
}	EM	superconductors", Phys				ix quanta in	neavy-ten	THOH				
		K.M. Gheri, C. Saavedi	a et al. "Entan	alement enai	neering of one-photon	wavepackets	s using a s	ingle-atom				
	EN	source", LANL preprint										
/		S.M. Girvin, L.I. Glazma	an et al "Quar	ntum Fluctuati	ons and the Single-Ju	nction Coulor	nb Blocka	de" Phys.				
	EO	Rev. Lett. 64:26, 3183-										
	EP	N. Gissin and S. Massa	ar, "Optimal Qu	antum Clonin	g Machines", LANL pro	eprint quant-	oh/970504	6 (July 17,				
	EP	1997).										
\	EQ	N. Gissin and H. Bechr	nann-Pasquinu	cci, "Bell ined	uality, Bell states and	maximally er	itangled st	ates for n				
		quibits" LANL preprint of	quant-ph/98040)45 (April 20,	1998).							
	ER	N. Gissin & S. Popescu http://focus.aps.org/v4/				ocus, at		· ·				
	ES	A. Golub, "Andreev Re 7458-7468 (September		esonance Tu	nneling in Josephson .	Junctions", Ph	nys. Rev. E	3, 52:10,				
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DAte	ET	A. Golubov and M. Yu. cond-mat/9803369 (19)		Anomaious pro	ximity enect in a-wave	superconduc	ROIS , LAN	ır bre	print
		A. Golubov and M. Yu.		"Surface clocks	onic coattoring in d way	o cuporcond	uctore" L	A N.II	
/	EU	preprint cond-mat/9901		Surface electri	onic scattering in d-way	re supercond	uciors , L/	AINL	
		G. Goppert, X. Wang, a		rt "High Tempe	erature anomaly of the	conductance	of a tunne	al iune	tion"
	EV	Phys. Rev. B, 55:16, R				conductance	or a turnie	a junc	uon,
		Daniel Gottesman, "Fa	ult-Tolerant C)uantum Comp	utation with Higher-Dim	nensional Sys	stems" I A	NI	
	EW	preprint quant-ph/9802			atation with riighor bin	ionolonal Oye			
		Daniel Gottesman, "A	Theory of Fau	It-Tolerant Qua	Intum Computation". LA	ANL preprint	guant-ph/9	97020	29
	EX	(February 17, 1997).				P	400000		
\	EY	Daniel Gottesman, "Pa	sting guantun	n codes", LANL	preprint quant-ph/960	7027 (July 31	, 1996).		
		Daniel Gottesman, "A (•	-	na Pa	und"
	EZ	LANL preprint quant-ph			ecting Codes Saturatin	ig the Quant	ini namini	ng bo	unu ,
		H. Grabert, and G. Ingo			offect" Superlattices a	nd Microstru	ctures 25	·5/6 0	15
	FA	(1999).	Jiu, Wesosco	pic doseprisori		ina microstra	ciures, 20	.5/0, 5	13
		M.J Graf, S-K Yip et al.	"Electronic t	hermal conduc	tivity and the Wiedema	nn-Franz law	/ for uncor	ventio	
	FB	superconductors", Phys					Ter direct		51101
		Markus Grassl, Martin	Rotteler et al.	. "Computing L	ocal Invariants of Qubit	t Svstems" L	ANL prepri	int qua	ant-
	FC	ph/9712040 (May 29, 1		,		,		,	
			<u> </u>		0 1 0 1		OL:0. D :		
	FD	Markus Grassl, Thoma LANL preprint quant-ph			or-Correcting Codes ar	ia Quantum :	oniit Regis	sters",	·
		M. Grassl and Th. Beth		,	rasura Channal" I ANI	proprint aug	nt.nh/0610	2042	
	FE	M. Grassi and Th. Beth (January 17, 1997).	i, Codes for t	HE QUAITUIN E	asure Chailler, LANL	. ргерппі qua	пери/9610	JU42	
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		OTHER RE	FERENCES (Incl	luding Author, T	itle, Date, Pertinent Pages,	Etc.)					
Dhie	FF	N. Groenbech-Jensen, Annular Josephson Jui				l Chaos in a c	le-driven L	ong			
	FG	Lov K. Grover, "A fast	quantum mech	anical algorit	nm for database search	n", STOC, 21:	2-219 (199	96).			
	FH	Lov K. Grover, "A fast quantum mechanical algorithm for database search", STOC, 212-219 (1996). G. Hackenbroich, B. Rosenow, and H. Weidenmeuller, "Quantum Zeno effect and parametric resonance in mesoscopic physics", LANL preprint cond-mat/9807317 (July 1998).									
7	Fl	Michael J.W. Hall, "Rai ph/9802052 (July 24, 1		correlations	and density operator d	istributions" L	ANL prepr	int quant-			
	FJ	U. Hanke, Yu. Galperir transport in parity-sens					ic and dyn	amic			
	FK	Yoshiko Hara, "Gains r http://www.eetimes.cor 7/20/99				o <u>m</u> (July 6, 19	99).Acces	sed on			
	FL	Y. Harada, D. B. Havila based superconducting						ent of a Nb			
	FM	T.F. Havel, S.S. Soma spectroscopy" LANL pr				um informatio	n processi	ng by NMR			
	FN	D. B. Haviland <i>et al</i> , "Menvironment" <i>Physica</i> 1			ucting single electron t	transistor in a	high impe	dance			
	FO	H. Hilgenkamp, J. Man properties of grain bou									
	FP	Scott Hill and William F ph/9703041 (March 23		ntanglement	of a Pair of Quantum B	Bits", LANL pr	eprint quar	nt-			
	FQ	M. Hillery and V. Buzel (January 24, 1997).	k, "Quantum co	ppying: Funda	mental inequalities", L	ANL preprint	quant-ph/9	701034			
EXAMINER		Sougla, Ui	Uli	DATE	CONSIDERED 7 }	nae, o	7				
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Liu	- ED				itle, Date, Pertinent Pages,	EIC.)			
pira.	FR	Mika Hirvensalo, Quar							
	FS	J.J. Hogan-O'Neill, A.N Rev. B, 60:5, 3568-357			oundry effects in s- and	d-wave supe	rconducto	rs", Pr	ıys.
					Horodecki, "Optimal con				
/	FT				pect of Jaynes principle" rried by ensembles of n				decki,
		quant-ph/9712035 (De							
	۴U				tum information carried	by ensemble	es of mixed	d state	∍s",
		LANL preprint quant-ph			Photograph Provides Four and a second				
	FV	distillation", LANL prep			lity and limits for a class I 9, 1998).	s of protocols	or entang	iemen	ıt
	FW				I, "Microlithography for I			r Thir	ı Film
					(97/lithogr.html; access				
	FX	wave/normal-metal/d-w			rsal symmetry breaking viches", phys. Rev. B, 5				
1	-	1997).							
	FY	A.G. Huibers, S.R. Pate Dots", LANL preprint co			e Conductance and its P 1998).	arametric De	erivatives i	n Qua	ıntum
	FZ	M. Hurd, T. Lofwander, Rev. B, 59:6, 4412-442			ndin, "ac Josephson effe	ect in d-wave	junctions"	, Phys	s.
	GA				d-wave pairing state in , Physical Rev. B, 49:17				.).
EXAMINER		Leigla, le				iae, cz			
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		E. Il'ichev, et al, "Anon					<u> </u>	rain-Bo	undanı		
1 Lec	GB	Josephson Junctions in								er	
KALL		published as Phys. Re						`	, •		
/	GC	E. Il'ichev, V. Zakosare	enko et al., "N	onsinusoida	al Cu	rrent-Phase Rel	ationship of	Grain I	Boundary .	Josep	hson
	GC	Junctions in High-Tc S									
	GD	E. Il'ichev et al., "Temp	erature depe	ndence of th	he cı	urrent-phase rela	ation for YB	aCuO s	tep-edge 、	Josep	hson
	GD	junctions", App. P. Lett	, 72:6, 731 - 7	33 (Feb. 9,	1998	3).					
	GE	E. Il'ichev, V. Zakosare						in inho	mogeneou	ıs higl	n-T
	UL.	grain-boundry junction	s", Phys. Rev	. В, 59:17, 1	150	2-11505 (May 1,	1999).				
	GF	Ambegaokar Vinay, Bo					oulomb Blo	ckaded	Supercor	ductir	าg
\vdash	<u> </u>	Islands," Phys. Rev. L	ett. 75:6, 115	4-1157, (Au	g. 7,	1995).					
	GG	L. loffe, V. Geshkenbe						S' Jose	phson Jur	nctions	s for
		Quantum Computing",	LANL preprin	t cond-mat/	9809	9116 (January 1	1, 1999).		····		
	GН	A. Jacobs and R. Kum									ic
		Superconducting-Sem	iconducting H	eterostructu	ures"	, LANL preprint	cond-mat/9	<u>810343</u>	(Nov. 3, 1	998).	
	GI	B. Janko and V. Ambe	gaoker, "Parit	y Fluctuatio	ns b	etween Couloml	Blockade	d Super	conducting	g Islar	nds",
		Phys. Rev. Lett. 75, pp). 1154-1157 ((1995).							
)	GJ	R. Colin Johnson, "Eir								0 400	
		http://www.eetimes.com	n/printableArt	iicle?aoc_ia	=OE	G19990419S00	<u>43.com</u> ; Ac	cessea	on April 1	9, 195	19.
	GK	Jonathan A. Jones, Mic						quantu	m search	algori	thm
		on a quantum compute									
, /	GL	P. Joyez et al., "Obser								condu	ucting
		Single Electron Transis	Stor , Priysica	neview Le	uers	, voi. /2:15, 245	00-∠401 (A¢	ли 11, 1	394).		
\	GM	Richard Jozsa, Michal		al., "Univers	sal C	uantum Informa	tion Compr	ession"	, LANL pre	print	
<u>'</u>	L	quant-ph/9805017 (Ma	y 7, 1998).	- 1			====			-	
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		OTHER RE	FERENCES (Inc	cluding Author, Title	e, Date, Pertin	ent Pages, Etc.)						
Fsic	011	A. Kadigrobov, A. Zago	oskin et al., "G	iant conductant	e oscillation	s controlled by	supercu	irrent flow	throu	gh a		
TALL	GN	ballistic mesoscopic co										
	GO	A. Kadigrobov, A. Zagoskin, R. Shekhter, and M. Jonson, "Giant Conductance Oscillations in an Normal Mesoscopic Ring Induced by an SNS Josephson Current", LANL preprint cond-mat/9410080 (October 21, 1994).										
	GP	C. L. Kane, and Mathe interacting one-dimens										
	GQ	S. Kashiwaya, L. Alff, e unknown; hard copy].	et al., "Tunneli	ng spectroscopy	and symme	etries in YBCO	and NC	CO", [prep	orint; c	late		
	GR	S. Kashiwaya, Y. Tana junctions", Materials ar								7).		
	GS	J. R. Kirtley, K. Moler, Josephson Junctions",					erferen	ce Pattern	s in 0-	·pi		
	GT	J.R. Kirtley et al., "Tem 1373-1375 (August 27,		endence of the l	Half-Integer	Magnetic Flux (Quantur	n", Scienc	e, 285	;,		
	GU	A. Yu. Kitaev, "Quantui ph/9511026 (Novembe	m measureme	ents and the Abe	lian Stabiliz	er Problem", LA	NL pre	print quart	-			
	GV	T. Klapwijk, "Mesoscop (1994).		uctor-semicond	octor heteros	structures", Phy	sica B,	197, 481-4	1 99			
	GW	E. Knill, and R. Laflamı (Jan. 16, 1998).	me, and W. Zı	urek, Science, "l	Resilient Qu	antum Computa	ation", S	science, 27	79, 34	2,		
	GX	E. Knill, "Non-binary Ui 8, 1996).	nitary Error Ba	ases and Quanti	ım Codes", l	LANL preprint q	uant-ph	1/9608048	(Octo	ber		
EXAMINER	1	aigla li	186	DATE	CONSIDERED	7 Nice	00	2				
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		OTHER REF	ERENCES (Inc	cluding Author, Title	e, Date, Pertinent Pages, E	itc.)						
RAY	GY	E. Knill and Raymond L (August 8, 1996).	aflamme, "Co	oncatenated Qu	antum Codes", LANL p	reprint quar	nt-ph/9608	012				
	GZ E. Knill, "Bounds for Approximation in Total Variation Distance by Quantum Circuits", LANL preprint quant-ph/9508007 (August 8, 1995).											
	НА	E. Knill, "Approximation by Quantum Circuits", LANL preprint quant-ph/9508006 (August 8, 1995).										
	НВ	E. Knill, R. Laflamme, R. Martinez, C. –H. Tseng, "A Cat-State Benchmark on a Seven Bit Quantum Computer", LANL preprint quant-ph/9908051 (1999).										
	нс	E. Knill and R. Laflamm (1997). [Also published ph/9604034 (April 26, 19	e, "Theory of as "A Theory	f quantum error-	correcting codes", Phys				uant-			
	HD	Paolo Zanardi, Fausto F Dot Array", LANL prepri			in Semiconductors: N	oiseless End	coding in a	Quan	ntum-			
	HE	K. Kouznetsov, A. Sun, Mixed Order Parameter 1997).										
	HF	S. E. Kubatkin , A. Ya. 7 Lett. 63, pp. 126-132 (19		Z. G. Ivanov, "Co	oulomb blockade electr	ometer with	a high-Tc	", JET	Р			
	HG	I. Kulik, "Macroscopic Q (1970).	uantization a	and the Proximit	/ Effect in S-N-S Juncti	ions", Sov. F	Phys. JETI	P, 30,	944			
	НН	I. Kulik, and R. Shekhte PhysJETP, 41, 308 (Fo			narge discreteness effe	ects in granu	ilated med	ia", Sc	ov.			
	ні	I. Kulik, and Y. Mitsai, "E Temp. Phys., 1:7, 434 (urities on the Jos	sephson current throug	h SNS junct	ions", Sov	. J. Lo)W			
	HJ	S.G. Lachenmann, I. Fri step junctions", Phys. R.	edrich et al.,			emiconduct	or/normal-	condu	ctor			
EXAMINER	A	ought lin	,	T T	·	lay o	7					
		if reference considered, whet nd not considered. Include co	her or not citati		ce with MPEP 609; Draw lin	• •						

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61.		Raymond Laflamme, C	esar Miguel, Ju	ıan Pablo Paz	et al., "Perfect Quantum	Error Cor	rection Co	de", LANL				
Adle	НК	preprint quant-ph/9602			,							
(U. Ledermann, Alban L	. Fauchere, and	d Gianni Blatte	er, "Nonlocality in Mesos	copic Jose	phson Jur	nctions with				
	HL	Strip Geometry", LANL					,					
j ,	нм	A.J. Leggett, et al., "Dynamics of the dissipative two-state system", Rev. Mod. Phys. 59, pp. 1-85, (1987).										
		G. Lesovik, T. Martin, and J. Torres, "Josephson Frequency Singularity in the Noise of Normal Metal -										
	HN				9902278 (June 25, 199		Nomai w	eiai -				
				· · · · · · · · · · · · · · · · · · ·			in a Da Zu	2.0				
	но	R. Liang, D. A. Bonn, a Crucibles", Physica C 3			igh quality YBCO single	crystals us	sing Bazro) 3				
		-					1 1.	" "				
	HP	D. A. Lidar, I. L. Chuan Rev. Lett. 81, pp. 2594		, "Decoherenc	e-Free Subspaces for Q	uantum Co	omputation	n", Phys.				
/	HQ	N. Linden, S. Massar e preprint quant-ph/9805			ement Requires Collecti	ve Measur	ements", l	_ANL				
	HR	T. Loefwander, G. Joha	ansson, M. Huro dd ac compone	d, G. Wendin, onts" I ANI pr	"Superconducting d-waveprint cond-mat/9710004	re junctions L (1997)	s: The					
 	†											
)	HS	Daniel Loss and David mat/9701055 (July 20,		"Quantum Co	mputation with Quantum	n Dots", LA	NL preprir	nt cond-				
	нт				netic-field-induced cross . Rev. B 53, pp. 3543-3			riodicity in				
	_		*****									
	HU				Electron and Coherent-C		r Tunnelin	g in				
					tt. 67 pp. 3030-3033 (19							
	HV				-junction qubits with con	trolled cou	plings", LA	ANL				
`	<u></u>	preprint cond-mat/9808	007 (Aug. 6, 19	196). I								
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							<u> </u>					
		OTHER REF	ERENCES (Ir	ncluding Author,	Title, Date, Pertinent Pag	ges, Etc.)						
Litur	нw	Y. Makhlin, G. Shoen, a 305 (March 1999).	ind A. Shniri	man, "Joseph	son-junction qubits w	rith controlled co	uplings", N	ature, 398,				
	нх	Y. Makhlin, G. Schoen, in <i>Quantum Mesoscopia</i> Netherlands (2000).										
	НҮ	Alexander N. Korotkov & Mikko A. Paalanen, "Charge sensitivity of radio frequency single-electron transistor", App. Phy. Lett., 74:26, 4052-4054 (June 28, 1999).										
	HZ	J. Mannhart et al, "Gene Lett. 77, pp. 2782-2785		agnetic Flux b	y Single Grain Bound	daries of YBa₂Cι	л ₃ О _{7-х} ", Phy	s. Rev.				
	IA	A. Martin and C.J. Lamb nanostructures", Phys. I				istics of superco	nducting					
	IB	Leigh John Martinson, " http://www.sciam.com/as						, at				
	IC	D. Maslov, and P. Goldt cond-mat/9711070 (Nov			ection in inhomogene	ous Luttinger liqi	uids", LAN	L preprint				
	ID	D. Maslov, M. Stone, P. Phys. Rev. B, 53:3, 154				nd proximity effec	ct in Lutting	ger liquids",				
	ΙE	Masashige Matsumoto a a px±ipy- Wave Superc					d the Dom	ain Wall in				
	IF	G. Massimo Palma, Kal preprint quant-ph/97020		minen, Artur I	K. Ekert, "Quantum C	computers and D	issipation"	, LANL				
	IG	K. A. Matveev, M. Gisse Blockade of Josephson					on of the C	oulomb				
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lifle		R. Colin Johnson, "Qua											
ngu		http://www.eetimes.com	n/printable/Ar	ticle?doc_id=Ol	EG19990428S00)15.com; Ac	cessed	on April 2	28, 199	3 9.			
	IJ		K. Bottcher, and T. Kopp, "Multichannel do Josephson effect in ballistic point contacts", Phys. Rev. B., 55:17, 11670-11687 (May 1, 1997).										
	IK	J. E. Mooij et al., "Jose	phson persis	tant-curent Qubi	t", Science, 285,	1036-1039), (Augu	st 13, 199	9).				
	IL	A.F. Morpurgo, B.J. vai Superconductors", Phy					oetweer	Two					
	IM	Michele Mosca, Artur E Computer", LANL prep				genvalue Es	stimatio	n on a Qu	antum	l			
	IN	Dima Mozyrsky, Vladin quant-ph/9609018 (Ma		nd Mark Hillery,	"A Hamiltonian f	or Quantun	n Copyi	ng", LANL	. prepr	int			
	Ю	Dima Mozyrsky and Vla			gnal splitting that	avoids initi	alizatio	n of the ta	rgets"	,			
	ΙP	Y. Nakamura, A. N. Ko superconducting single						aks in a					
	IQ	Y. Nakamura, Yu A. Pa Cooper-pair box", Lett.				copic quan	tum sta	tes in a sii	ngle-				
	IR	S. Nicoletti et al., "Bi-er substrates", Physica C,			Josephson Jun	ctions on S	rTiO3 a	nd sapphi	re				
	IS	M.A. Nielsen, "The enta (June 13, 1996).	anglement fid	lelity and quantu	m error correction	on", LANL p	reprint	quant-ph/9	96060	12			
7	ΙΤ	M. A. Nielsen, Isaac L. (1997).	Chuang, "Pro	ogrammable Qu	antum Gate Arra	ys", LANL p	oreprint	quant-ph/	97030)32			
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the	IU	M. Nieto, "Quantized Phase Effect and J 1968).	iosephson i	uniteling , Phys. Rev., 16	7.2, 410-	+17 (Warc	II IU,						
1		A.N. Omelyanchouk and Malek Zareyan	. "Ballistic Fo	our-Terminal Josephson	unction:	Bistable S	tates and						
	IV	Magnetic Flux Transfer", LANL preprint											
Ì	ıw	T.P. Orlando, J.E. Mooij et al., "Superco 15413 (December 1, 1999).	T.P. Orlando, J.E. Mooij et al., "Superconducting persistent-current qubit", Phys. Rev. B, 60:22, 15398-15413 (December 1, 1999).										
	ΙX	M. Oshikawa, and A. Zagoskin, "Voltage wire", LANL preprint cond-mat/9810303			in attache	ed to a qua	antum						
	ΙΥ	S. Ostlund, "Landau Ginzburg theory of R14758 (December 1, 1998).	the d-wave .	losephson junction", Phys	. Rev. B,	58:22, R1	4757-						
	ΙZ	S. Panyukov, and A. Zaikin, "Coulomb E Tunnel Junctions", Phys. Rev. Lett., 67:2			-State Pr	operties of	Ultrasmall						
/	JA	Y. Pashkin, Y. Nakamura, and J. Tsai, "I Lett., 74:1, 132-134 (January 4, 1999).			tron trans	sistor", Ap	p. Phys.						
	JB	A. B. Pavolotsky, Th.Weimann, H. Schetechnique for fabricating Nb junction circ 230-232 (1999).											
	/ nc	Asher Peres, "Error Correction and Symph/9611046 (Nov. 25, 1996).	metrization i	n Quantum Computers", I	ANL pre	print quan	t-						
/	JD	Asher Peres, "Unitary Dynamics for Qua 1996).	antum Codev	vords", LANL preprint qua	nt-ph/96(09015 (Se	pt. 18,						
	JE	P. Pingue et al. "Fabrication of hybrid su ultraviolet-atomic force microscope litho				y integrate	∋d						
	JF	Martin B. Plenio and Peter L. Knight, "De LANL preprint quant-ph/9610015 (Oct. 1		imits to quantum computa	ation usin	g trapped	ions",						
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1.La	JG	M.B. Plenio and P.L. K				ime of large r	numbers o	n a					
p. w.		quantum computer", LA	ANL preprint o	quant-pn/95120	01 (Dec. 2, 1995).								
	JH		J.F. Poyatos, J.I. Cirac and P. Zoller, "Quantum gates with 'hot' trapped ions", LANL preprint quant-ph/9712012 (Dec. 4, 1997).										
		LE Poyeton II Ciron	LE Baueta III Give B Zellev (Complete Characterization of a Quantum Braceau the Two Bit Quantum										
	ال		J.F. Poyatos, J.I. Cirac, P. Zoller, "Complete Characterization of a Quantum Process: the Two-Bit Quantum Gate", LANL preprint quant-ph/9611013 (Nov. 10, 1996).										
	JJ	John Preskill, "Reliable	Quantum Co	mputers", LAN	L preprint quant-ph/97	05031 (Aug. 2	26, 1997).						
	JK	Eric M. Rains, "Quantu 1997).	m Codes of M	⁄linimum Distar	ce Two", LANL preprir	nt quant-ph/97	704043 (A	pril 24	٠,				
	JL	Eric M. Rains, R.H. Ha	rdin et al., "A	Nonadditive Q	uantum Code", LANL p	preprint quant	-ph/97030	02 (Ma	ay 9,				
	JM	John H. Reina, Luis Ou	ırioga, Neil F.	Johnson, "Dec	oherence of Quantum	Registers", L	ANL prep	rint qu	ant-				
		ph/0105029 (2001).					·						
	JN	R. Rouse et al., "Obser Phys. Rev. Lett. 75, pp			g between Macroscop	ically Distinct	Quantum	Level	s"				
	JO	Rudiger Schack, "Using ph/9705016 (May 10, 1		computer to inv	estigate quantum chac	os", LANL pre	print quan	t-					
	JP	S. Schneider, H. M. Wi Trap Quantum Comput				and State Pr	eparation	via Ion	1				
	JQ	R.J. Schoelkopf, P. Wa and Ultrasensitive Elec	ıhlgren et al.,	"The Radio-Fre	equency Single-Electro		(RF-SET):	A Fas	st				
	JR	H. Schoeller et al, "Res 203, pp. 423-431 (1994	onant tunneli	-			nctions" F	hysica	a B				
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Ihii.	JS	Gerd Schön, A.D. Zaiki Ultra Small Tunnel June				s, Phase Transitions, and th 5/6, 237412 (1990).	e Dissi	oative Dyr	amics	of			
;	JT	Gerd Schön et al. "Par	ity effects in su	nerconducti	ina	SET transistors", Physica E	3 203 n	n 340-346	(199	4)			
	JU	Gerd Schön, Alexander	Shnirman, and	d Yuriy Makl	hlin	, "Josephson-Junction Qub	its and	the 1998 I					
<u> </u>	30	Process by Single-Elec	tron Transistors	s", LANL pre	epr	nt cond-mat/9811029v1 (3	Nov. 19	98).					
	JV		eonard J. Schulman and Umesh Vazirani, "Scalable NMR Quantum Computation", LANL preprint quant- n/9804060 (April 24, 1998).										
			•	nairina atata	a i	a thermeelectric recognics	of CND	iunation"					
	JX	preprint cond-mat/9805		-	e vi	a thermoelectric response o		juriction ,	LANL				
	JY					-scale superconductivity-ind structures", LANL preprint o							
٠.	JZ	A. Shnirman, and G. Sh Rev. B, 57:24, 15400-1			nen	ts performed with a single-e	electron	transistor	", Phy	S.			
	KA	A. Shnirman, G. Schon Rev. Lett., 79:12, 2371-			n M	anipulations of Small Jose	ohson J	unctions",	Phys				
	КВ	Peter Shor, "Polynomia Computer", SIAM Journ				actorization and Discrete Lo 09 (1997).	garithm	is on a Qu	antun	1			
	кс	P.W. Shor, "Quantum E preprint quant-ph/96040			ed I	Not Completely Reveal the	Error S	yndrome",	LANI	-			
	KD		ark, Stern-Gerla	ach, and Qu		tum Zeno Effects in Interfer	ometric	Qubit Re	adouť	,			
/			•	•		Vertices as Evidence of Tir	no Dov	oraal Cum	motni				
	KE					Vortices as Evidence of Tir ys. Rev. Lett., 74:16, 3249-							
	KF	A.M. Steane, "Space, ti preprint quant-ph/97080			req	uirements for reliable quant	tum con	nputing", L	ANL				
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Dhe:	КG	A .M. Steane, "Simple	Quantum Err	or Correcti	ng Codes", LANL preprin	t quant-ph/9605	5021 (May	15, 1996)
(кн	Andrew Steane, "Multi ph/9601029 (May 13,		nterference	and Quantum Error Corr	ection", LANL p	reprint qu	ant-
	KI	Y. Takane, and Y. Koy Gas", J. Phys. Soc. Jp			Proximity Effect on a One ovember 1996).	e-Dimensional	Interacting	Electron
7	KJ		n Effect betwe		e and d _x ² - _y ² Wave Superd	conductors", Ph	ys. Rev. L	.ett., 72:24
	кк	Y. Tanaka, and S. Kas	shiwaya, "Influ		roken time-reversal symn R2948-R2951 (August 1,		Josephso	n effects ir
	KL	Y. Tanaka and S. Kas	hiwaya, "Theo junctions", Ma	ory of d.c. J	osephson current in d-wa Mechanisms of Superco	ive supercondu		
	KM		shiwaya, "The	ory of Jose	phson effects in anisotro	oic supercondu	ctors", Phy	ys. Rev. B
	KN	Y. Tanaka and Satosh B, 53:18, 11957-11960		"Theory of	the Josephson effect in d	-wave superco	nductors",	Phys. Rev
	ко	Y. Tanuma, Y. Tanaka Superconductors arou Superconductivity, Sp.	ind rough surf	aces", Proc	Kashiwaya, "Theory of Lo eedings of the 9 th Interna	ocal Density of Stitional Symposi	States in d um on	-wave
	KP	Gary Taubes, "Is the to (September 24, 1993)		arm for a si	uperconducting computer	?", Science, 26	31:5129, 10	670
	KQ	T. Terashima, K. Shim Lett., 67:10, 1362-136			tivity of One-Unit-Thick Y	BaCuO Thin F	ilm", Phys.	Revw.
: /	KR	M. Tinkham, Introduct	ion to Superc	onductivity,	pp. 264-286, (2 nd ed., M d	Graw-Hill, 199	6).	
	ĸs	Paivi Torma and Stig ((Feb. 29, 1996).	Stenholm, "Po	olarization in	n Quantum Computations	s", LANL preprir	nt quant-pl	n/9602021
EXAMINER		hough a	Lille	. [DATE CONSIDERED 7	moi, e	7	
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		OTHER RE	FERENCES (Ir	ncluding Author, Titi	le, Date Bertinent Pages, Etc.)				
1 Dec	кт	1	y et al., "Pairi	ng Symmetry an	d Flux Quantization in a Tri	icrystal :	Supercond	lucting]
	KU				ymmetry in Single-Layer Te 329 (January 19, 1996).	tragona	l Tl2Ba2C	u06.s	
	ΚV	Robert Tucci, "How to	Compile A C	uantum Bayesia	ın Net", LANL preprint quan	ıt-ph/980	05016 (Ma	y 7, 1	998).
	KW	Robert Tucci, "A Rudir	mentary Quar	ntum Compiler",	LANL preprint quant-ph/98	05015 (I	May 7, 199	98).	
	кх	W.G. Unruh,"Maintain 1994).	ing coherenc	e in Quantum Co	omputers", LANL preprint h	ep-th/94	06058 (Ju	ne 9,	
	KY				mission formalism for supe vices", Phys. Rev. B, 44:1, 4				be
	KZ	F. Vatan, V.P. Roycho Codes", LANL preprint			elated Qubit Errors and Bur 1997).	st-Corre	cting Qua	ntum	
	LA	D. Vitali and P. Tombe 12, 1998).	esi, "Decoher	ence control for	optical qubits", LANL prepri	nt quan	t-ph/98020	33 (F	eb.
	LB		"Quantum C	omputations and	d Images Recognition", LAN	IL prepr	int quant-p	h/970)3010
	LC				s in multiterminal supercon 03370 (March 26, 2000)	ductor/r	ormal met	al	
	LD	G. Volovik, "Comment mat/9707136 (July 199		Force in Superflu	uids in superconductors", L	ANL pre	print cond	-	
	LE	Haiging Wei, Xin Xue, preprint quant-ph/9702		any-Body Interac	ctions to Solve Hard Combi	natorial	Problems"	, LAN	L
	LF	U. Weiss, R. Egger, ar preprint cond-mat/950			ture nonequilibrium transpo	ort in a L	uttinger lic	ıuid", l	LANL
	LG				Controlling Josephson trans ANL preprint cond-mat/ 981			on of	
	LH	D.J. Wineland, C. Mor LANL preprint quant-p		eekhof et al., "Qu	uantum State Manipulation	of Trapp	ed Atomic	lons"	',
	LI	D.A. Wollman, D.J. Va YBa ₂ Cu ₃ O ₇ -Pb Joseph	ın Harlingen e Ison Junction	et al., "Evidence ", Phys. Rev. Le	for $d_x^2 - \frac{9}{y^2}$ Pairing from the Ntt., 74:5, 797-800 (January	1agnetic 30, 199	Field Mod	lulatio	n of
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	<u> </u>	OTHER REFERENCES (Including Adapts Title 10 te, Pertinent Pages, Etc.)	<u> </u>		I					
Lolu	LJ	William K. Wootters, "Entanglement of Formation of an Arbitrary State of Two C ph/9709029 (Sept. 13, 1997).	ubits", l	LANL prep	orint quant					
	LK	A. Levy Yeyati, A. Martin-Rodero and J.C. Cuevas, "The phase-dependent linea superconducting quantum point contact", LANL preprint cond-mat/9505102 v1, I			a					
	LL	S. Yip, "Josephson current-phase relationships with unconventional supercondu 3087-3090(August 1, 1995).	ıctors",	Phys. Rev	. B., 52:5,					
	S Yip, and J. Sauls, "Nonlinear Meissner Effect in Cu0 Superconductors", Phys. Rev. Lett., 69:15, 2264-2267 (October 12, 1992).									
	LN	A. M. Zagoskin, "Magnetic Interference Pattern in a Clean s-wave-Normal Meta Junction", Phys. Stat. Sol. (b) 202 pg. R9 (1997).	al-d-wav	e Superco	onductor					
	LO	A. Zagoskin, "The half-periodic Josephson effect in an s-wave superconductor-superconductor junction", J. Phys.: Condens. Matter, 9, L419 (1997).	normal	metal-d-w	ave					
	LP	A. Zagoskin, and I. Affleck, "Fermi edge singularities: Bound states and finite-si Math. Gen., 30, 5743-5765 (1997).	ze effec	ots", J. Phy	ys. A:					
	LQ	A. Zagoskin, and M. Oshikawa, "Spontaneous magnetic flux and quantum noise SND junction", J. Phy.: Condens. Matt., 10, L105 (1998).	in an a	nnular me	soscopic					
	LR	A. Zagoskin, "Quantum Theory of Many-Body Processes", pp. 19-20, 203, (Sprii	nger, Ne	ew York, 1	998).					
	LS	Alexandre M. Zagoskin & Masaki Oshikawa, "Spontaneous Magnetic Flux and C Connected Mesoscopic SND Junction", LANL preprint cond-mat/9710260 (Octo			a Doubly					
	LT	Alexandre M. Zagoskin, "A scalable, tunable qubit, based on clean DND or grain LANL preprint cond-mat/ 9903170 (1999).	n bound	ary D-D ju	ınction",					
	LU	Christof Zalka, "Threshold Estimate for Fault Tolerant Quantum Computing", LAph/9612028 (July 28, 1997).	NL prep	orint quant	:-					
EXAMINER		Crisq la Conte DATE CONSIDERED 7 M	ltej	67						
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	[e, Date, Pertinent Pages,							
D. Lec	P. Zanardi, "Dissipative Dynamics in a Quantum Register", LANL preprint quant-ph/9708042 (Aug. 25, 1997).											
	LW P. Zanardi, M. Rasseti, "Noiseless Quantum Codes", LANL preprint quant-ph/9705044 (1997).											
	LX	Paolo Zanardi, "Dissipation and Decoherence in a Quantum Register", LANL preprint quant-ph/9705045 (Feb. 6, 1998).										
	LY	Paolo Zanardi, Fausto preprint quant-ph/9808		ecoherent Inforn	nation Encoding in a	Quantum-Dot	Array", LA	NL				
	LZ	Kuan Zhang, D.A. Bon Untwinned YBaCuO Si							ice of			
	MA	M. Zhitomirsky and M. preprint cond-mat/970			a Twin Boundary of	a d-Wave Sup	perconduc	tor", L	ANL			
	МВ	Jian-Xin Zhu, Z. Wang superconductor-norma (September 1, 1996).										
	MC	Jian-Xin Zhu and C.S. broken pairing state at										
	MD	Wojciech Hubert Zurek preprint quant-ph/9605			uantum Logical Oper	ations on Enc	ode Qubit	s", LA	NL			
	ME	Makhlin, et al., "Joseph arXiv:cond-mat/981102			Readout Process by	Single-Electro	n Transist	ors,"				
EXAMINER	(Occipta 4	1268	DATE	CONSIDERED 7 Y	May 07						
	R: Initia	I if reference considered, who	ether or not citation	on is in conforman	ce with MPEP 609; Draw	•						